

Headquarters U.S. Air Force

Integrity - Service - Excellence

GeoBase for Incident Response Decisions



U.S. AIR FORCE

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HQ AFCESA/CEOI**





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GeoBase Overview

- **What Is GeoBase**
- **Why GeoBase**
- **Common Installation Picture (CIP) 2006**
- **Mission Data Sets**
- **GeoBase Toolkit - Description**
- **GeoBase Toolkit - Demo**
- **Review other toolkits**
- **GeoBase Information**



What is GeoBase?

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- A Name assigned to the USAF Geographic Information System (GIS)
- What is a GIS?
 - A GIS is a computer system capable of capturing, storing, analyzing, and displaying geographically referenced information; that is, data identified according to location.
 - Might also be defined as including the procedures, operating personnel, and spatial data that go into the system.



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What is GeoBase?

- **A Map**
- **Data**
- **Hardware**
- **Software**
- **People**



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Why Do We have a GeoBase Program

- **Response to compelling evidence of widespread fiscal waste and decision inferiority**
- **Foundation: Elimination of duplicate map making investments**
- **Mission: Installation operations require disciplined creation, management and sharing of critical geo-referenced information through modern mapping processes.**



GeoBase by any other name

- **Col. Brian Cullis, Director, Defense Installation Spatial Data Infrastructure (DISDI) - Office of Secretary of Defense, manages 4 GIS's**
 - **GeoBase - USAF**
 - **GeoReadiness - NAVY**
 - **GISR - ARMY**
 - **GeoFidelis - MARINES**



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GeoBase Vision

The GeoBase vision is “one installation, one map” with a mission to attain and sustain a capability enabling shared, efficient use of trusted, integrated, and georeferenced information delivering situational awareness across installations.



GeoBase Mission

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- **Focused on information resource management rather than IT acquisition.**
- **GeoBase includes the people, processes, and resources used in the collection, analysis, and display of georeferenced information to support the installation mission.**
- **GeoBase capabilities are served and exploited via the existing base communications network**



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The GeoBase Mission

The GeoBase mission is comprised of four unique decision support environments:

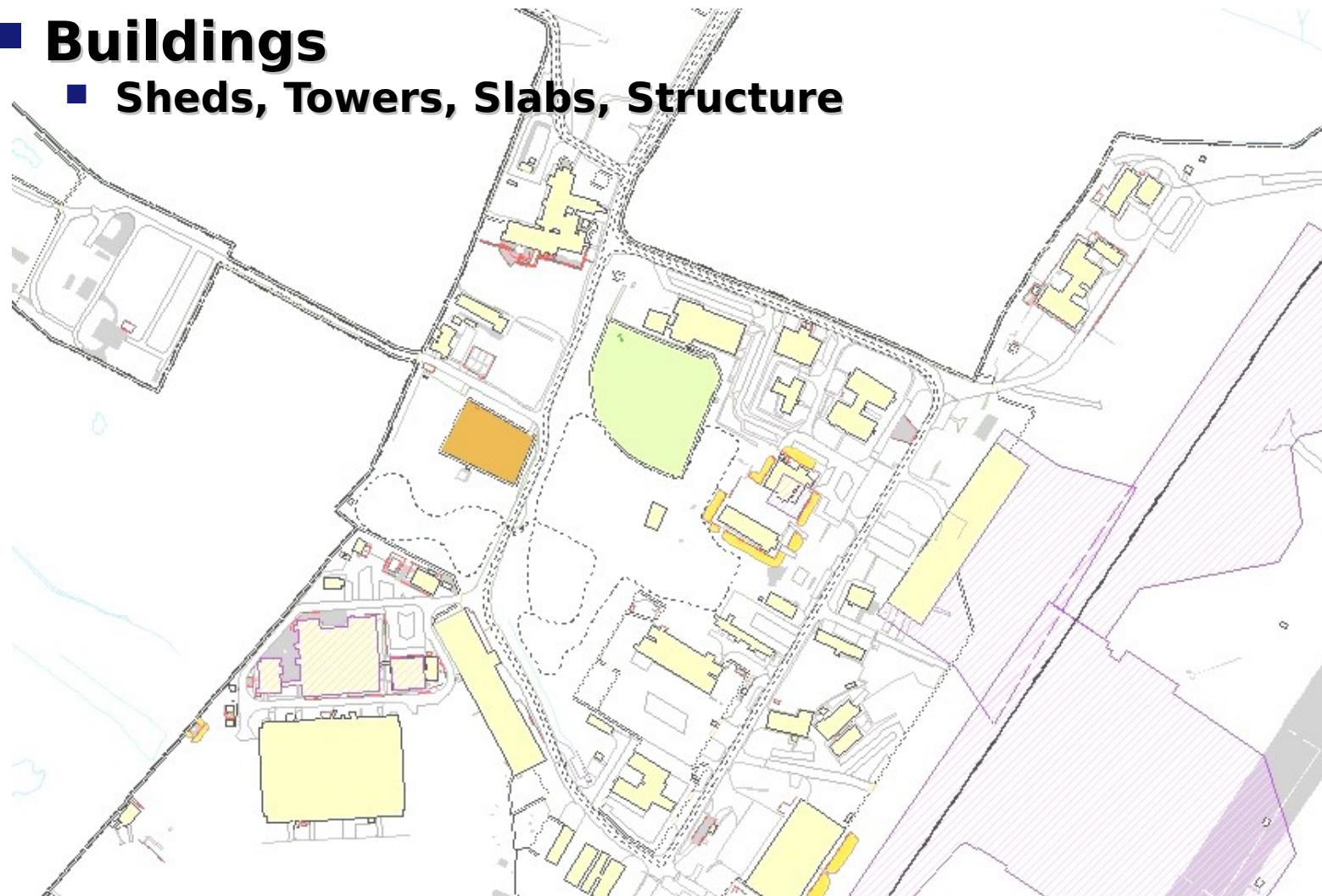
- Garrison**
- GeoReach**
- Expeditionary**
- Strategic**



Common Installation Picture 2006

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- **Buildings**
 - **Sheds, Towers, Slabs, Structure**

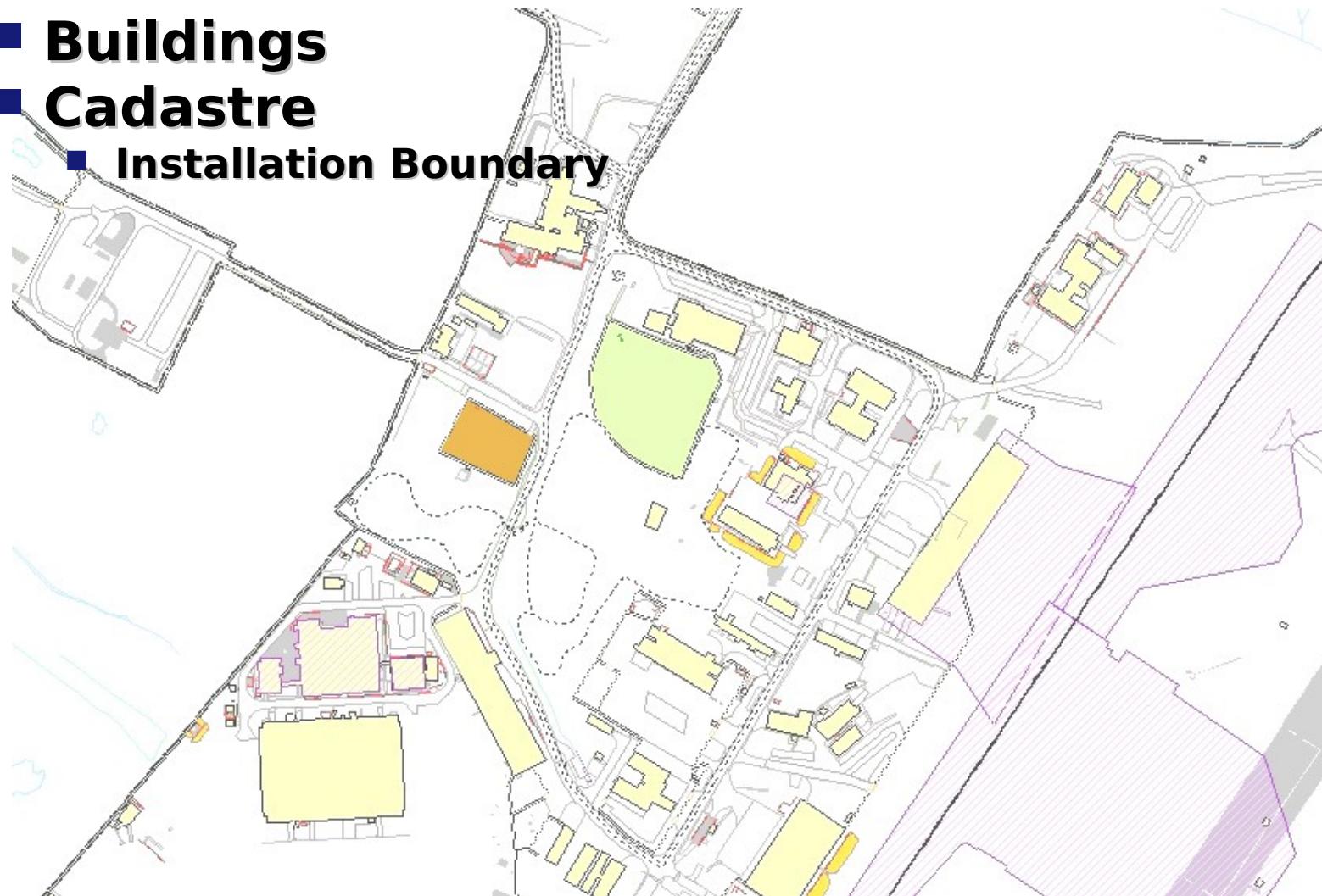




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Common Installation Picture 2006

- **Buildings**
- **Cadastre**
- **Installation Boundary**

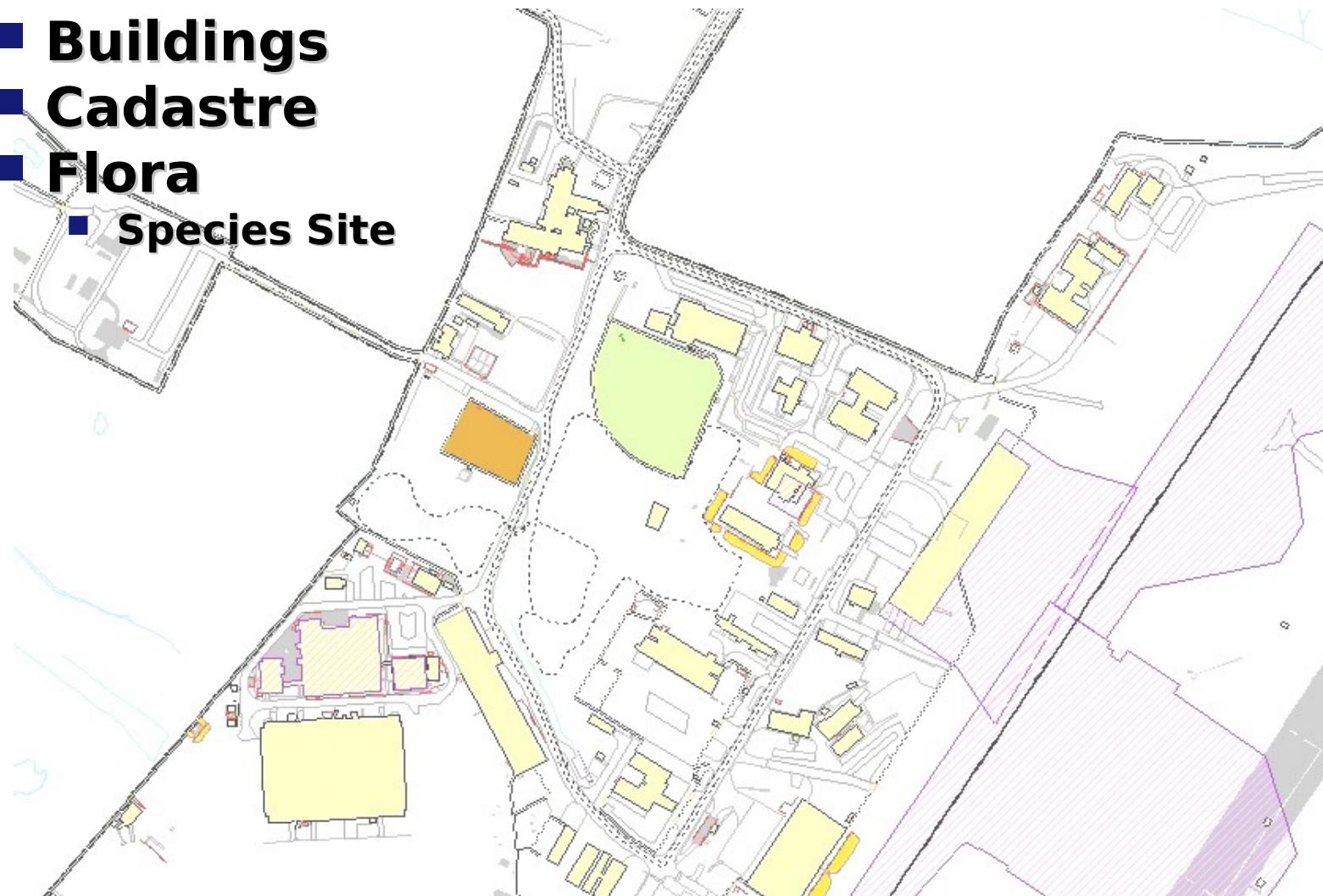




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Common Installation Picture 2006

- **Buildings**
- **Cadastre**
- **Flora**
 - **Species Site**

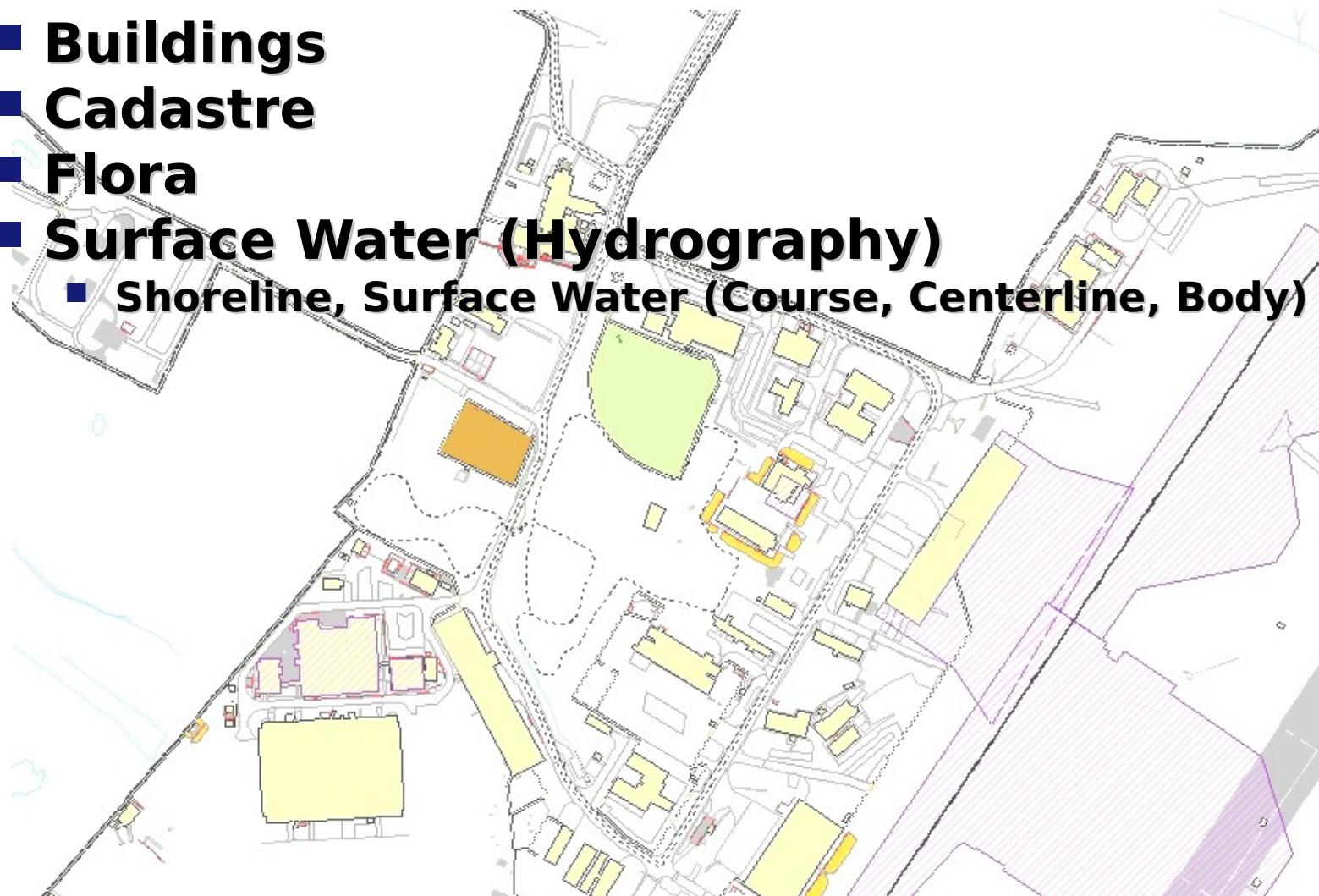




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Common Installation Picture 2006

- **Buildings**
- **Cadastre**
- **Flora**
- **Surface Water (Hydrography)**
 - Shoreline, Surface Water (Course, Centerline, Body)

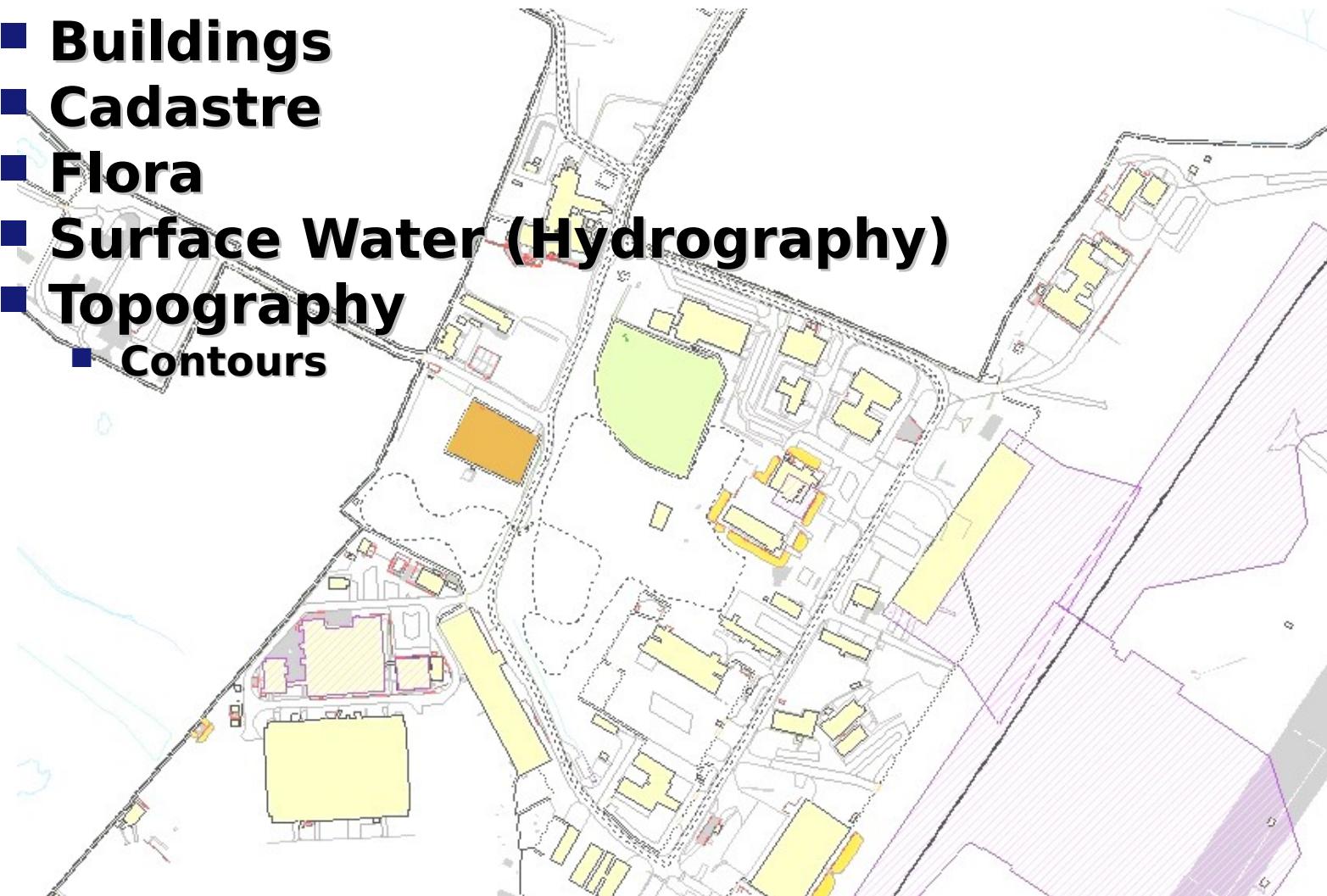




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Common Installation Picture 2006

- **Buildings**
- **Cadastre**
- **Flora**
- **Surface Water (Hydrography)**
- **Topography**
 - **Contours**

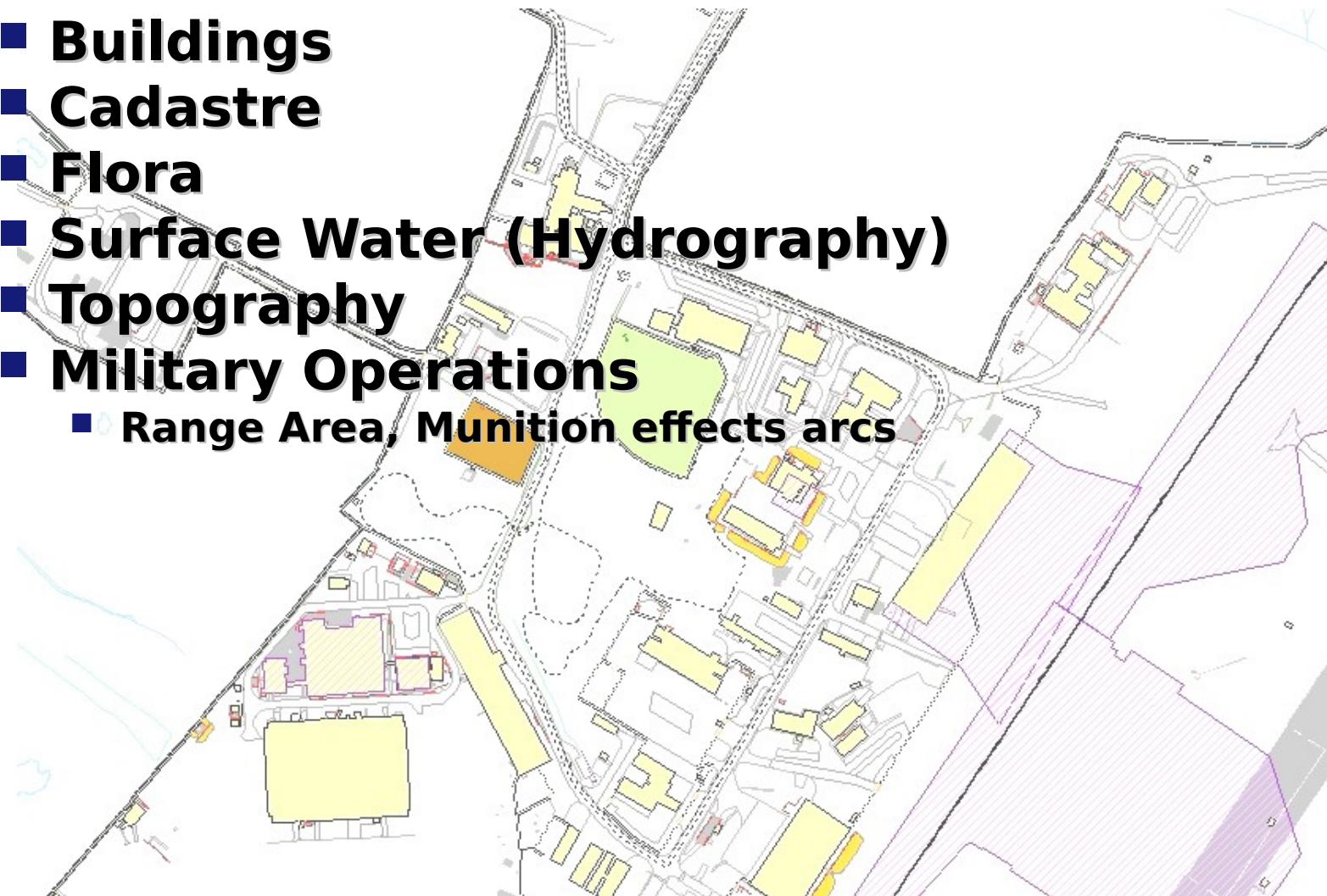




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Common Installation Picture 2006

- **Buildings**
- **Cadastre**
- **Flora**
- **Surface Water (Hydrography)**
- **Topography**
- **Military Operations**
 - Range Area, Munition effects arcs

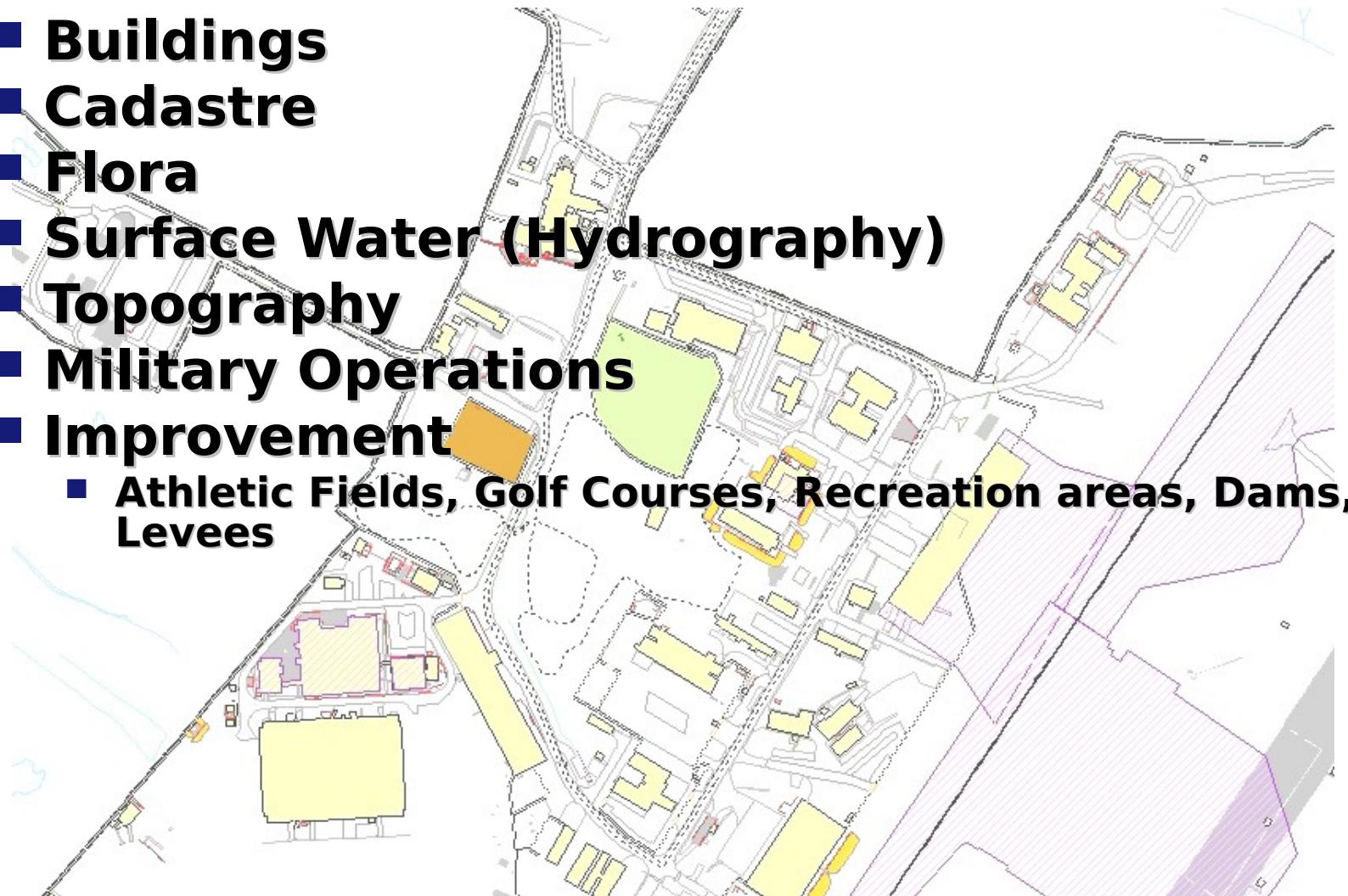




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Common Installation Picture 2006

- **Buildings**
- **Cadastre**
- **Flora**
- **Surface Water (Hydrography)**
- **Topography**
- **Military Operations**
- **Improvement**
 - **Athletic Fields, Golf Courses, Recreation areas, Dams, Levees**

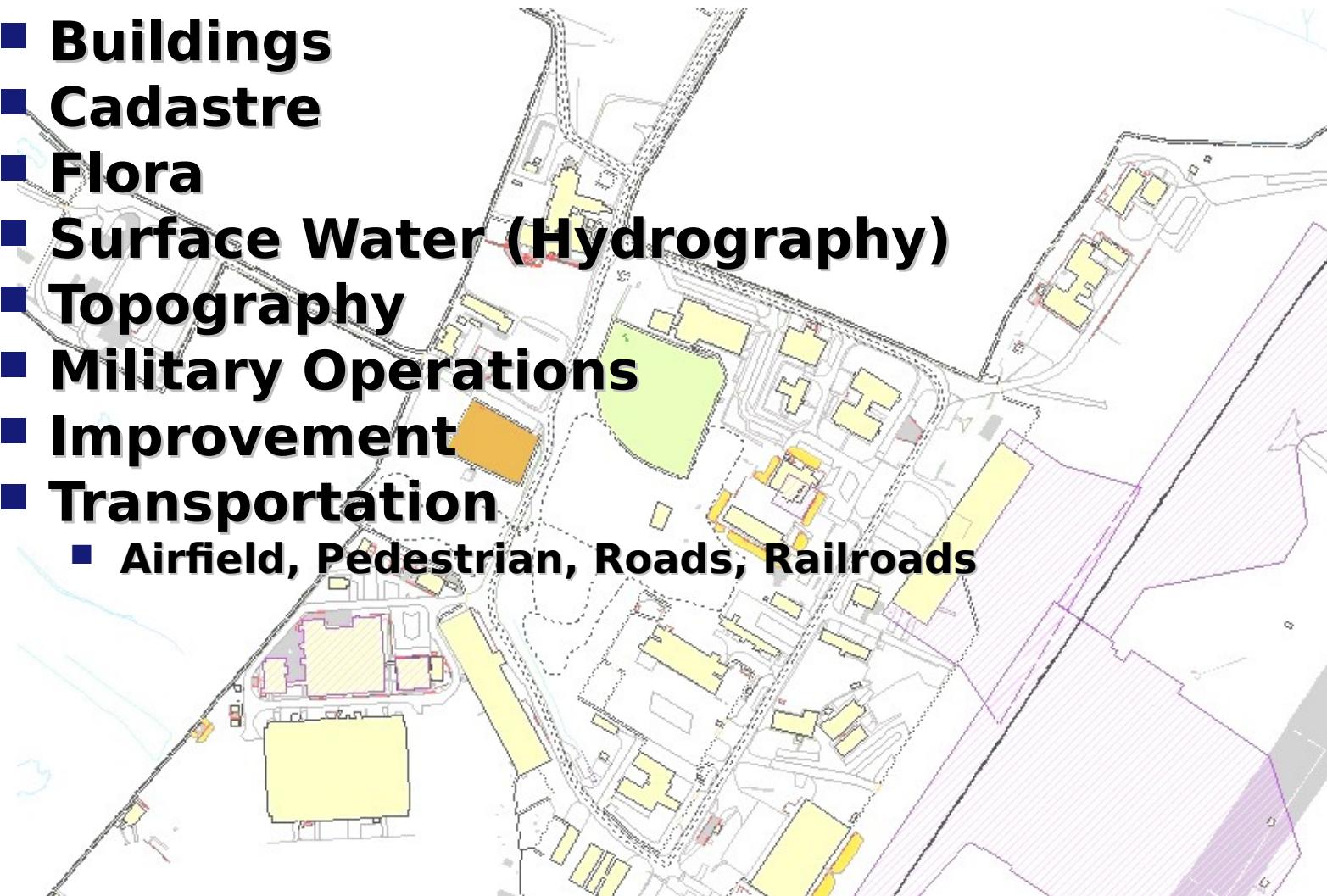




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Common Installation Picture 2006

- **Buildings**
- **Cadastre**
- **Flora**
- **Surface Water (Hydrography)**
- **Topography**
- **Military Operations**
- **Improvement**
- **Transportation**
 - **Airfield, Pedestrian, Roads, Railroads**

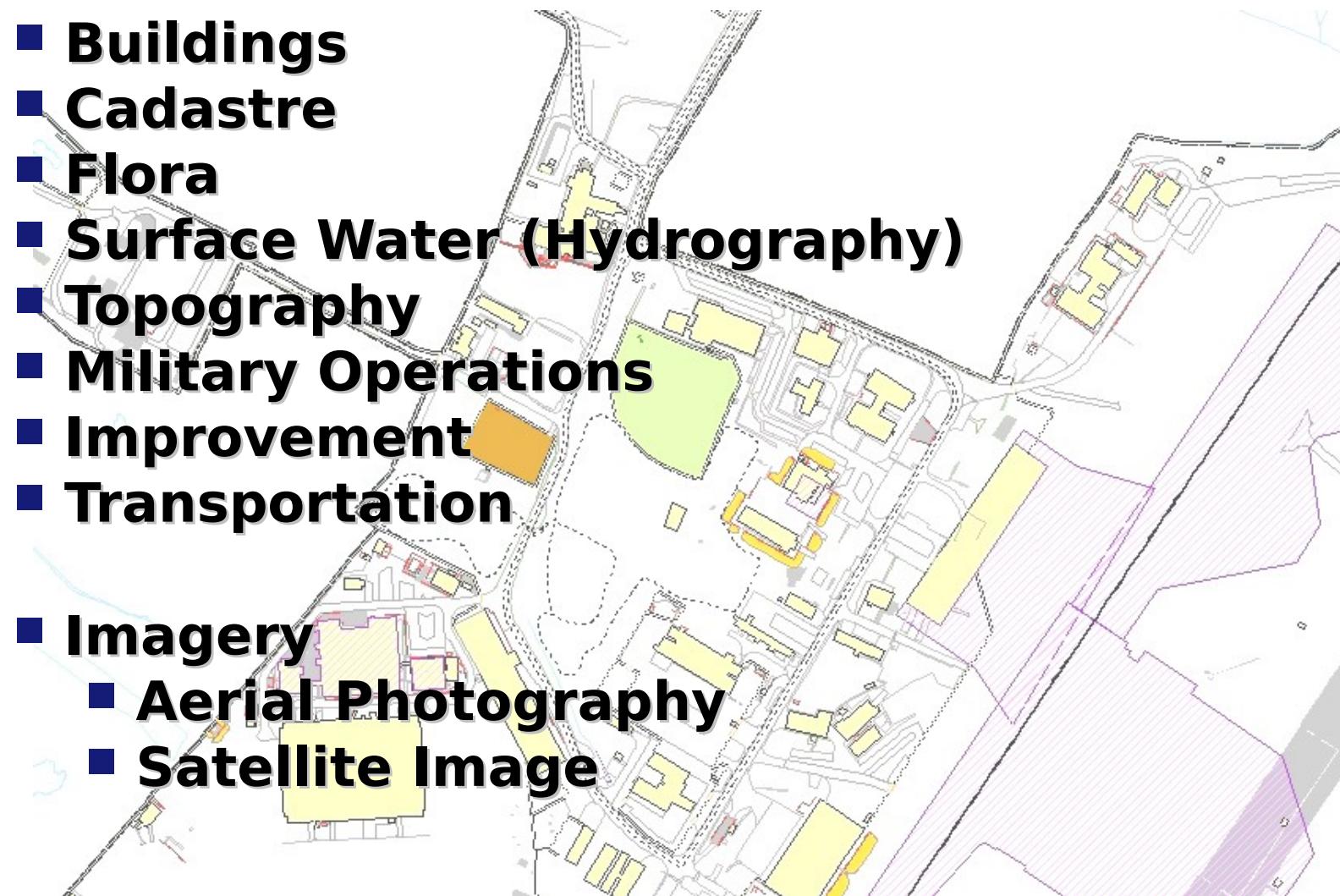




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Common Installation Picture 2006

- **Buildings**
- **Cadastre**
- **Flora**
- **Surface Water (Hydrography)**
- **Topography**
- **Military Operations**
- **Improvement**
- **Transportation**
- **Imagery**
 - **Aerial Photography**
 - **Satellite Image**





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Common Installation Picture 2006



■ Anything visible from the above!



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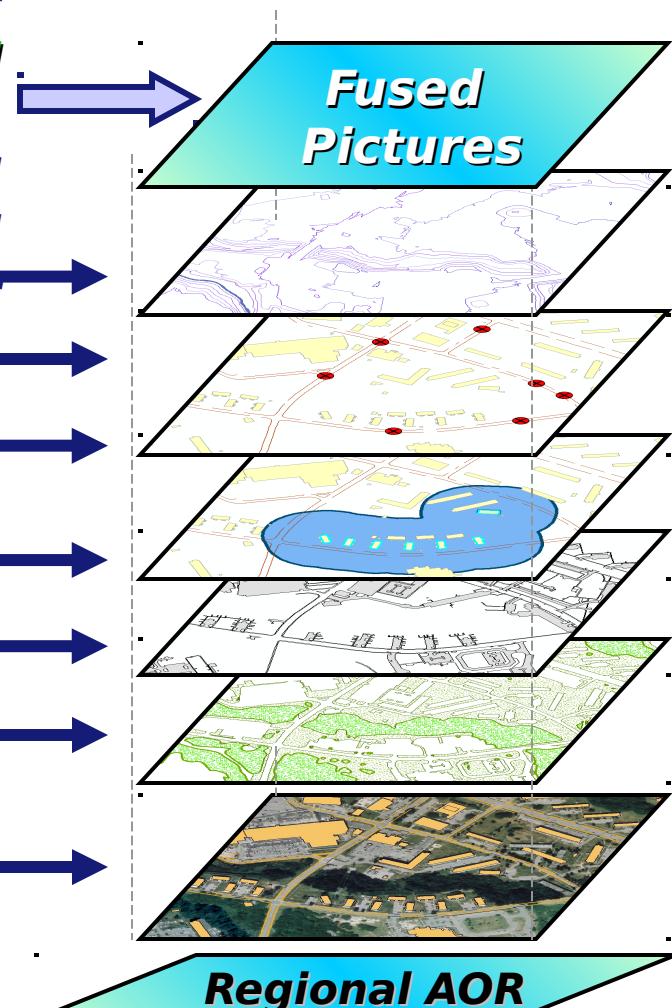
GeoBase - Mission Data Sets

Classified or unclassified
as determined by functional user

Functional data stewards
MDS

CIP

CE



Functional communities generate fused installation pictures with CIP and select MDS in functional IT solutions

MDS are functionally specific map layers

MDS are stored, where possible, with the CIP and are shared on a need-to-know basis as determined by functional data steward

The CIP is the common base map

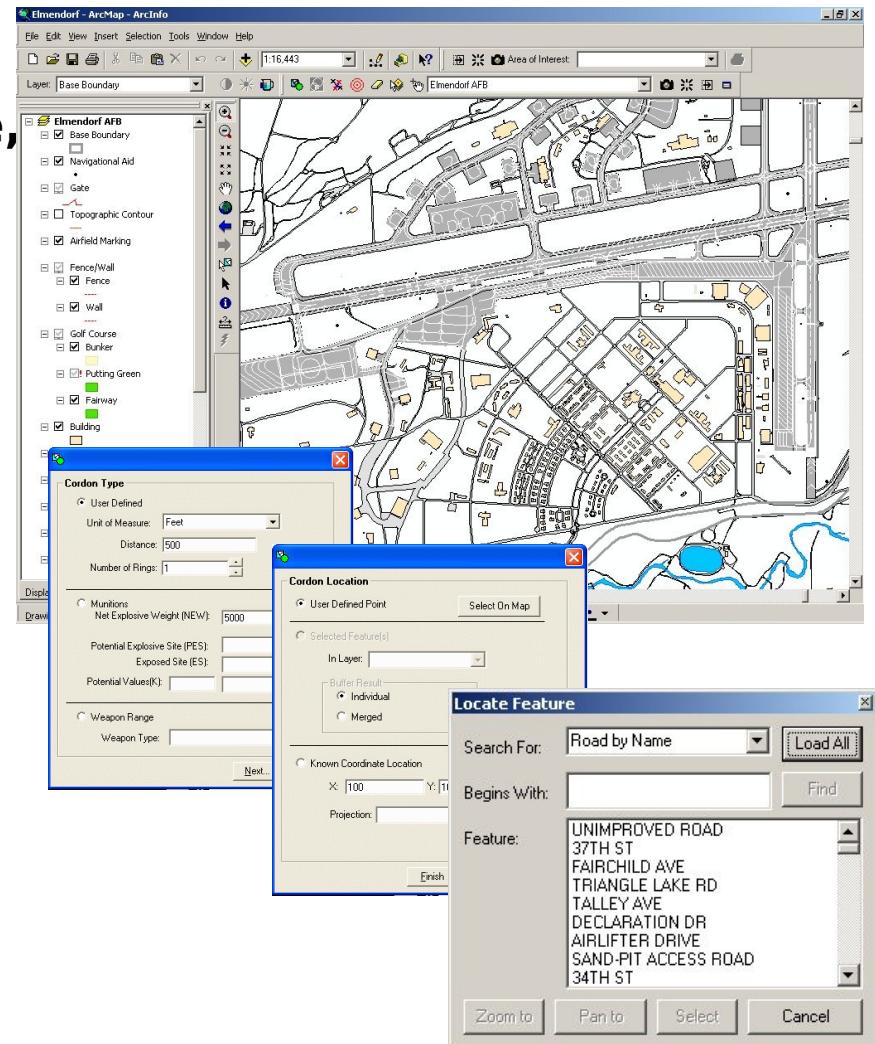
The CIP is maintained by CE and shared widely across the base LAN



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GeoBase ToolKit

- **Find features**
 - Building by number, name, or address
 - Street by name
- **Perform spatial analysis**
 - Create cordons
 - Determine impacts
- **Work with coordinates**
 - Find locations
 - Report coordinates
 - Convert coordinates
- **Locate areas of interest**
 - Housing
 - BX
 - Etc
- **Manage CIPs**





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Demonstration



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Other Tools

■ AFSPC

Geospatial Integration & Enablement

| Name | Owner | Status | Description | Usage | Bldg_Number | Contact | Phone_Number |
|-------------|----------|---------|-------------|-------|-------------|----------------|--------------|
| GM_WESTGATE | sbeattie | PENDING | 0 | 0 | 0000 | KRUEGER MIKE | 556-7083 |
| GM_WESTGATE | sbeattie | PENDING | 0 | 0 | 0 | 0 | 0 |
| GM_WESTGATE | sbeattie | PENDING | 0 | 0 | 0 | 0 | 0 |
| GM_WESTGATE | sbeattie | PENDING | 0 | 0 | 0 | 0 | 0 |
| GM_WESTGATE | sbeattie | PENDING | 0 | 0 | 0000 | MICHELLE FELTS | 556-7026 |
| GM_WESTGATE | sbeattie | PENDING | 0 | 0 | 0000 | LISA STRUDER | 556-7091 |
| GM_WESTGATE | sbeattie | PENDING | 0 | 0 | 0000 | DONNA NASSER | 556-7081 |
| GM_WESTGATE | sbeattie | PENDING | 0 | 0 | 0 | 0 | 0 |



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Real Property

Map Viewer - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media Print

Address http://usafe-geobeta/netconnector//content/mapv.aspx?mapwidth=997&mapheight=793&mapservice=tyfrclip

My Info Logout

USAFAE GeoBase

USAFAE A7C | Geobase Home | Calendar | File Library | Feedback | Requirements | Admin | Change Request

Legend | Maps | Layers | Map Information

Map Information

| | |
|-------------------|-----------------------------|
| Name | Common Installation Picture |
| Description | Common Installation Picture |
| Copyright | |
| Last Updated | 6/23/2005 |
| Aerial | False |
| Aerial Resolution | |
| Datum | |

Files Associated with Common Installation Picture
No Documents were Found.

Links Associated with Common Installation Picture
No Links were Found.

View Information

X:
Y:
Segment Length:
Total Length:
Area:
Close Polygon

Identify Results

Common Installation Picture

Find Building

Search

Map Data

| | |
|-------------|---------------------------|
| Building ID | TYFR00529 |
| Status | PERMANENT |
| Use | ADMINISTRATE |
| Design Code | SINGLE PURPOSE BLDG |
| Built | 1954 |
| Address | MESSINA, MICHAEL- 4807160 |
| Comments | USAFAE A7C |
| Owner | FOREIGN OWNED FACILITIES |

ACES Real Property Information

| SEQNBR | 103819 | SEQNBR_BELONGS_TO_INSTALL | TYFR |
|--------------------|--------|---------------------------|--------|
| FACILITY_NBR | 529 | SEQNBR_YEAR | 95 |
| FACILITY_TYPE | A | NET_FLOOR_AREA | 14212 |
| INTEREST_CODE | K | LAST_INVENTORY_DT | 2002-1 |
| UTILITY_UNKNOWN_YN | N | INSTRUCTION | 14T00 |
| UTILITY_STEAM_YN | N | SOLAR_YN | P |
| UTILITY_NON_YN | N | STEAM_YN | N |
| UTILITY_ELEC_YN | W | WATER_YN | N |
| HEAT_GAS_YN | N | HEAT_GAS_YN | N |
| HEAT_GAS_OIL_YN | N | HEAT_FUEL_OIL_YN | N |
| HEAT_GAS_YN | N | HEAT_GAS_YN | N |
| HEAT_STEAM_YN | N | HEAT_STEAM_YN | N |

DoD Use Only

Map Last Updated 6/23/2005

32 Meters

527 0 528

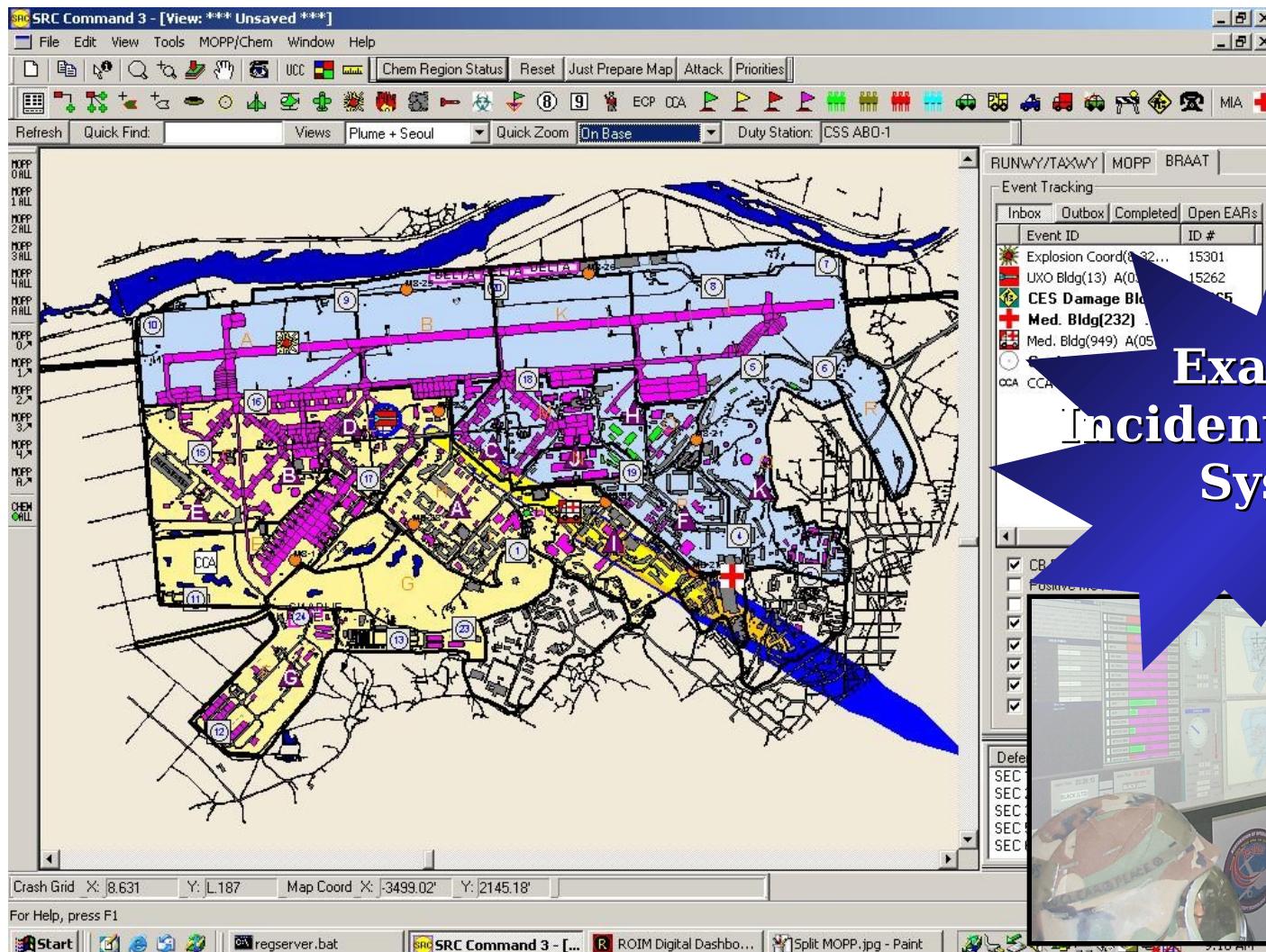
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Page Last Modified: 8/2/2005

http://usafe-geobeta/netconnector//default.aspx

Local intranet

ACES Real Property



Example: Incident Decision System





GeoBase Information Sources

- Installation
 - **Base Civil Engineer (BCE)**
 - **GeoBase Geo-Integration Office (GIO)**
- Functional
 - FIRE, EOD, Readiness, Medical, ...**
- MAJCOM: GIO (Provided List of POC's)
- FOA
 - **Michael Donaldson - Education & Training**
 - michael.donaldson@tyndall.af.mil
 - **Charles Hill - GeoBase PfM**
 - Charles.Hill@Tyndall.af.mil
- HAF-GIO
 - [**https://www.il.hq.af.mil/geobase/index.cfm**](https://www.il.hq.af.mil/geobase/index.cfm)



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GeoBase Information Sources

<https://www.il.hq.af.mil/geobase/faq.cfm>

Overview
Announcements
Resource Library
Links
Contact Us

GeoBase Compass Conference

SEARCH



Frequently Asked Questions (FAQ)

1. [Is GeoBase a system?](#)
2. [What is the mission of GeoBase?](#)
3. [What is GeoBase?](#)
4. [Is there a single commercial technical solution for GeoBase?](#)
5. [Is GeoBase COTS or a unique in-house defense technology solution?](#)
6. [What is the Common Installation Picture \(CIP\)?](#)
7. [Where do the images come from?](#)
8. [How is the Garrison Common Installation Picture \(CIP\) built?](#)
9. [Where are the installation maps \(the Common Installation Picture\) stored?](#)
10. [What MAJCOM, FOAs and DRUs are implementing GeoBase?](#)
11. [Does Garrison GeoBase comply with the Air Force server consolidation program?](#)
12. [Are any GeoBase program elements classified?](#)
13. [Who administers GeoBase training?](#)
14. [What education and training opportunities are available to learn more about GeoBase?](#)
15. [Are there any GeoBase conferences I might attend to learn more?](#)
16. [Who do I contact for more information?](#)
17. [What is Strategic GeoBase?](#)
18. [How are GeoReach and Expeditionary GeoBase different?](#)
19. [How does the GeoBase program affect the warfighter?](#)
20. [Will the GeoBase program ever reach a completion date?](#)